

Cecil County Department of Public Works

Phase II MS4



Development Services
Department of Public Works
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Prepared by:



October 18, 2015

Cecil County's IDDE Program

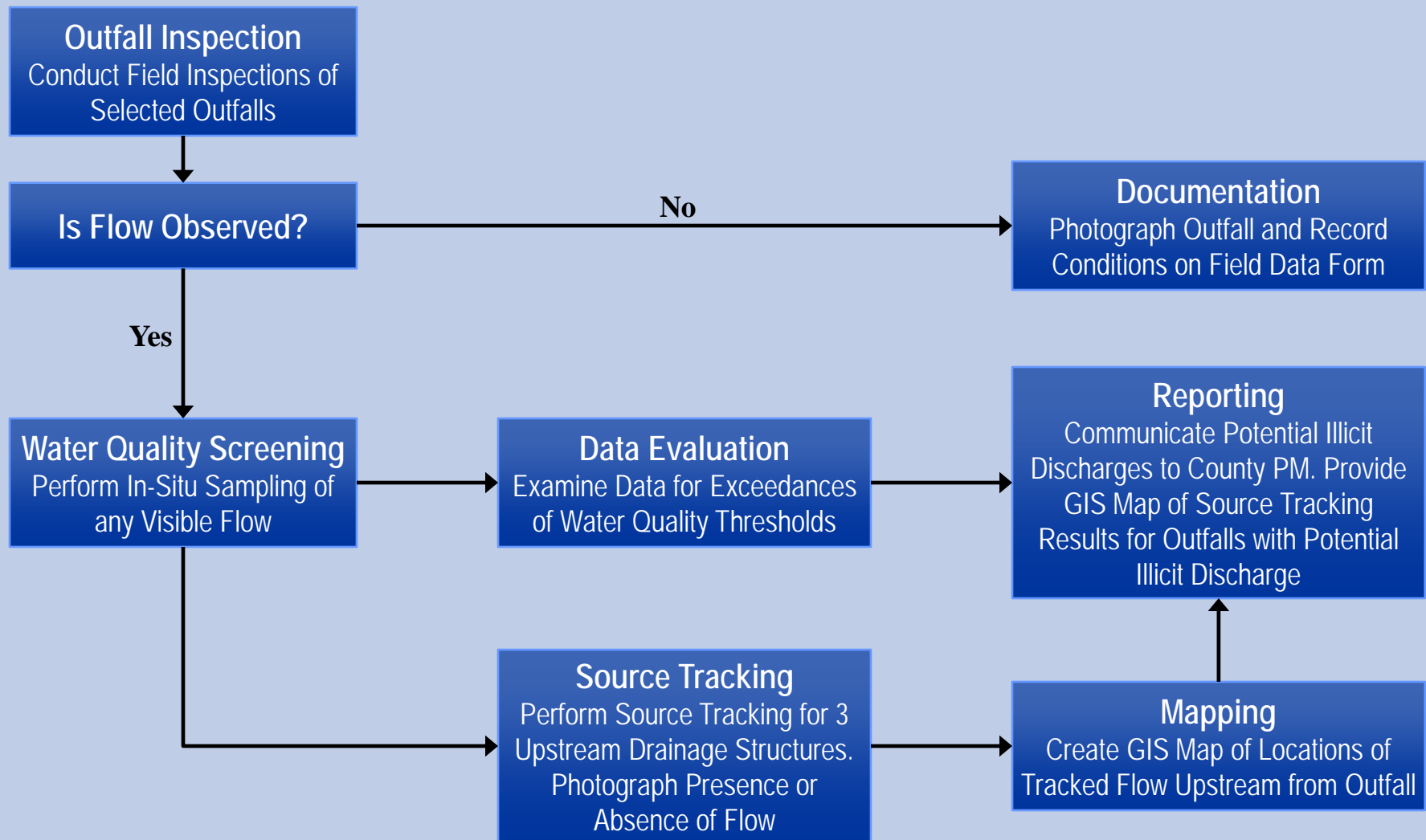
- General Overview of IDDE Program
- Outfall Field Inspection Procedures
- Data Evaluation and Reporting Procedures
- MS4 Program Inspection
- MS4 Program Inspection Observations and Recommendations
- IDDE Program Manual
- ArcGIS Online Tool
- Questions and Answers

General Overview of IDDE Program

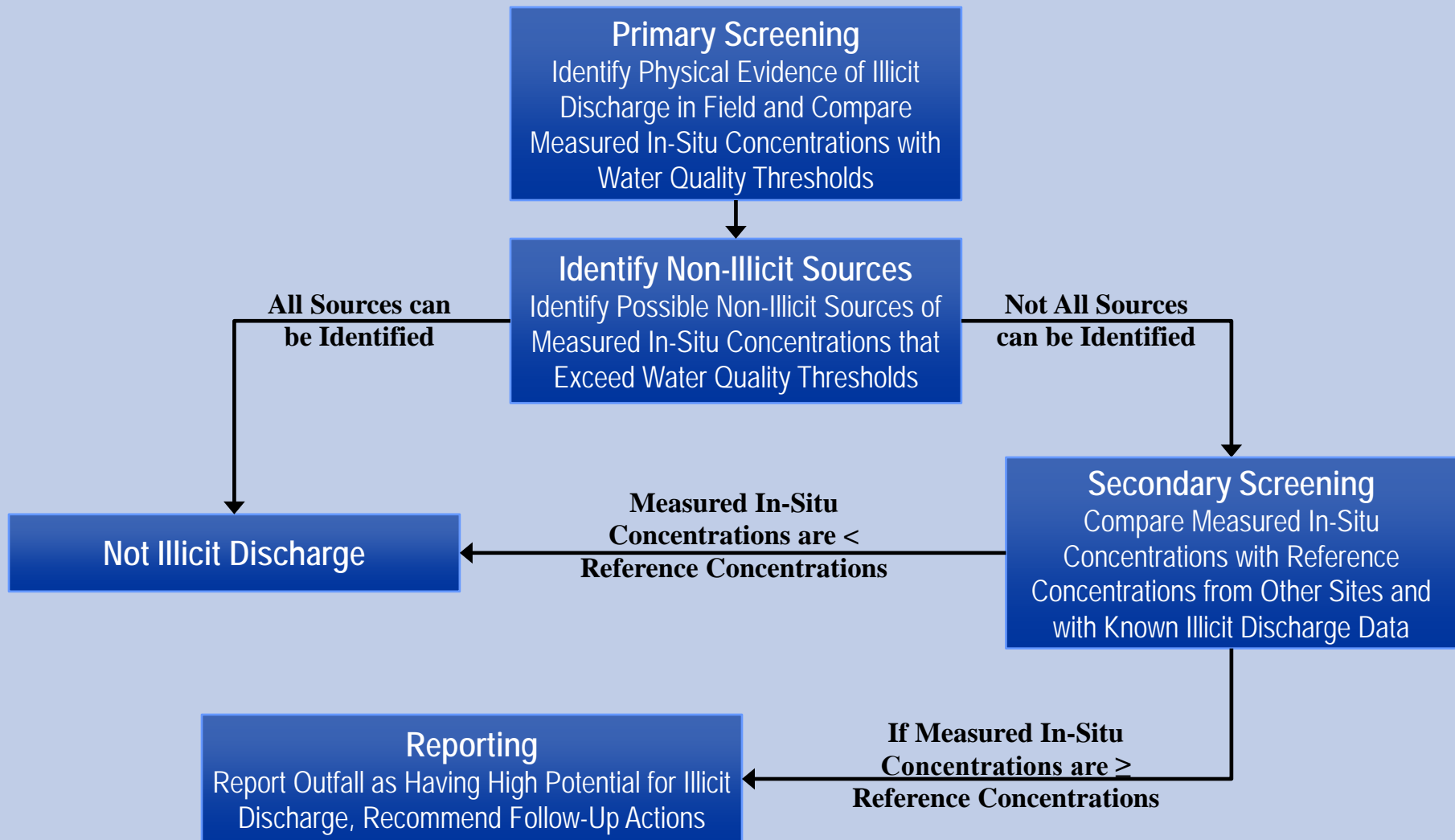
- Contracted EA Engineering, Science, and Technology, Inc., PBC to assist with IDDE Program
- Established protocols for field screening, data evaluation, and reporting
- IDDE permit requirements
 - Field screen ≥ 100 outfalls annually
 - Physical parameters and water quality sampling testing
 - Georeference outfalls
 - Annual NPDES Reporting



Outfall Field Inspection Procedures



Data Evaluation and Reporting Procedures



MS4 Program Inspection

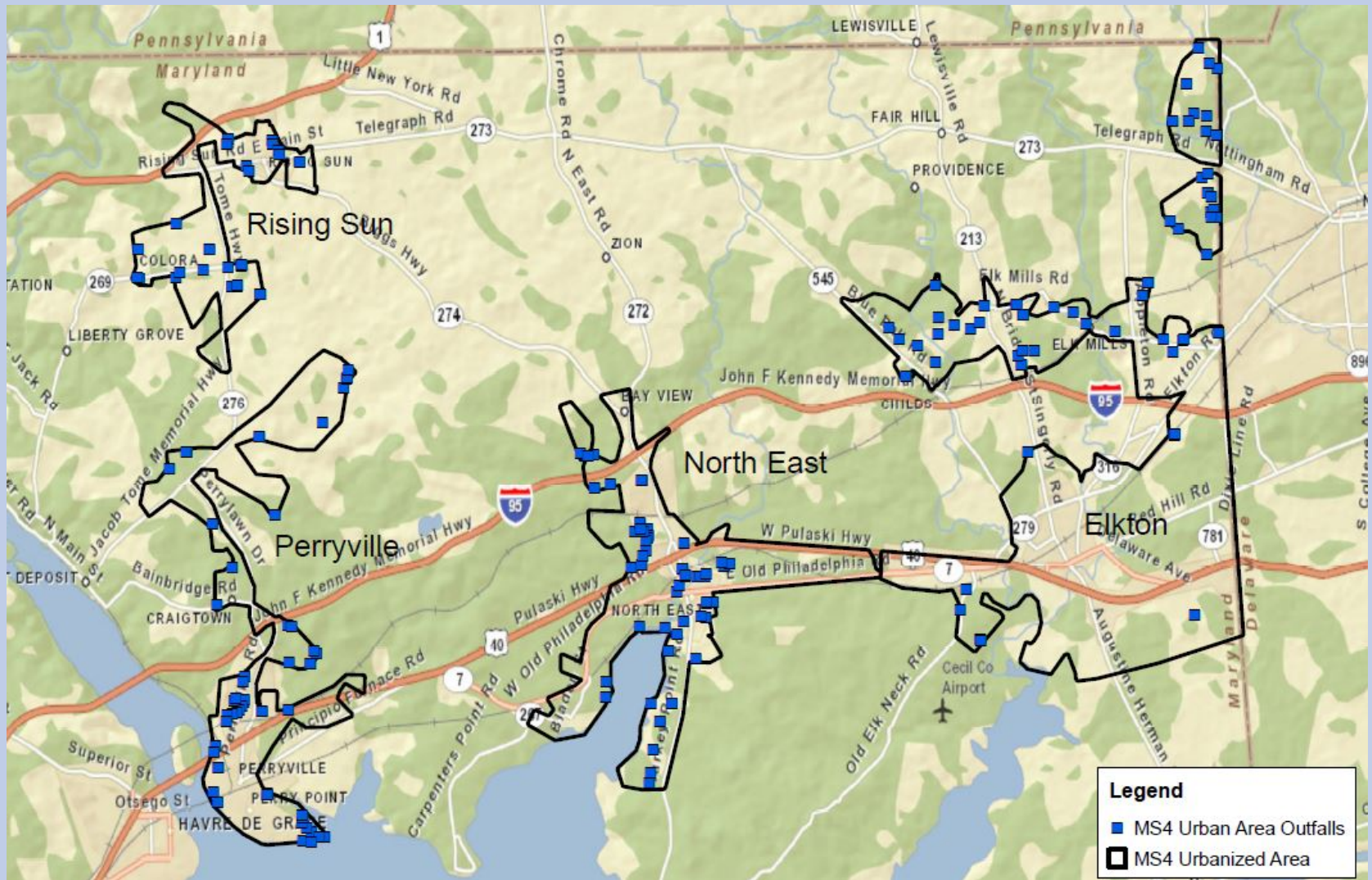
- MS4 Program Inspection
 - April 2015
 - IDDE and Pollution Prevention/Good Housekeeping for Municipal Operations
 - Construction Site Stormwater Runoff Control and Post-Construction Stormwater Management

MS4 Program Inspection Observations and Recommendations

- Observations and Recommendations
 - IDDE Program Manual
 - Formalize and document IDDE procedures
 - Confirm Regulated MS4 Urbanized Area Outfalls
 - GIS mapping
 - Windshield Surveys
 - Physical Parameters
 - Prioritize and select outfalls for future inspections
 - Developed an ArcGIS Online Tool

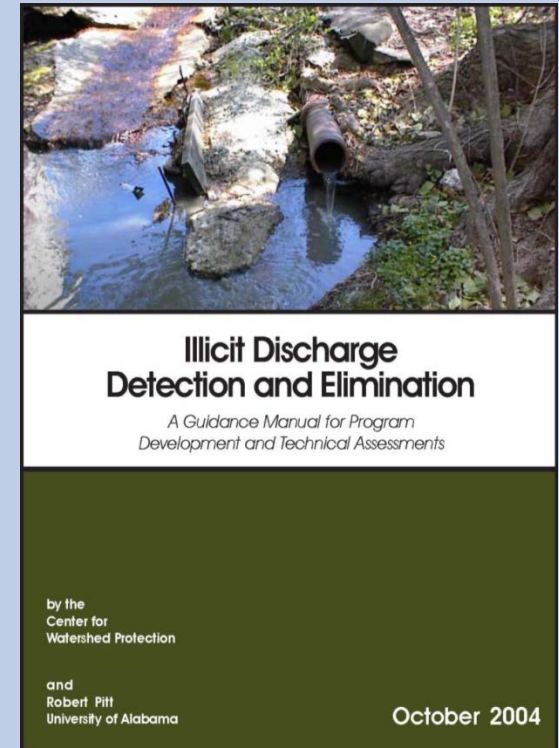
MS4 Urbanized Area

7



IDDE Program Manual

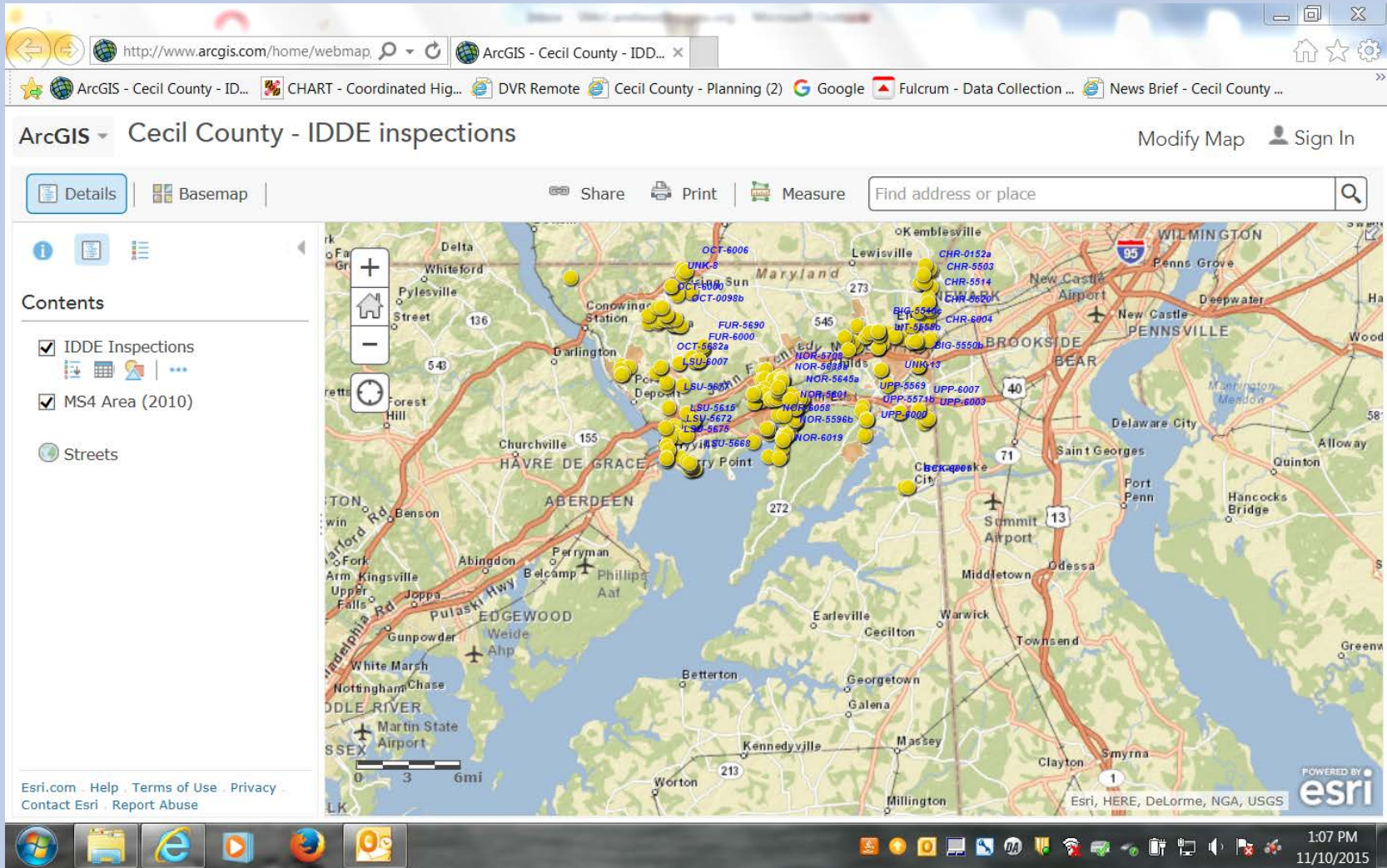
- Guidance Documents
 - CWP IDDE Guidance Manual
 - NPDES Phase II Permit Requirements
 - Storm sewer system map
 - Identify procedures to prevent, investigate, identify, eliminate, and enforce illicit discharges
 - Procedures to address spills and illegal dumping
 - Public education and outreach



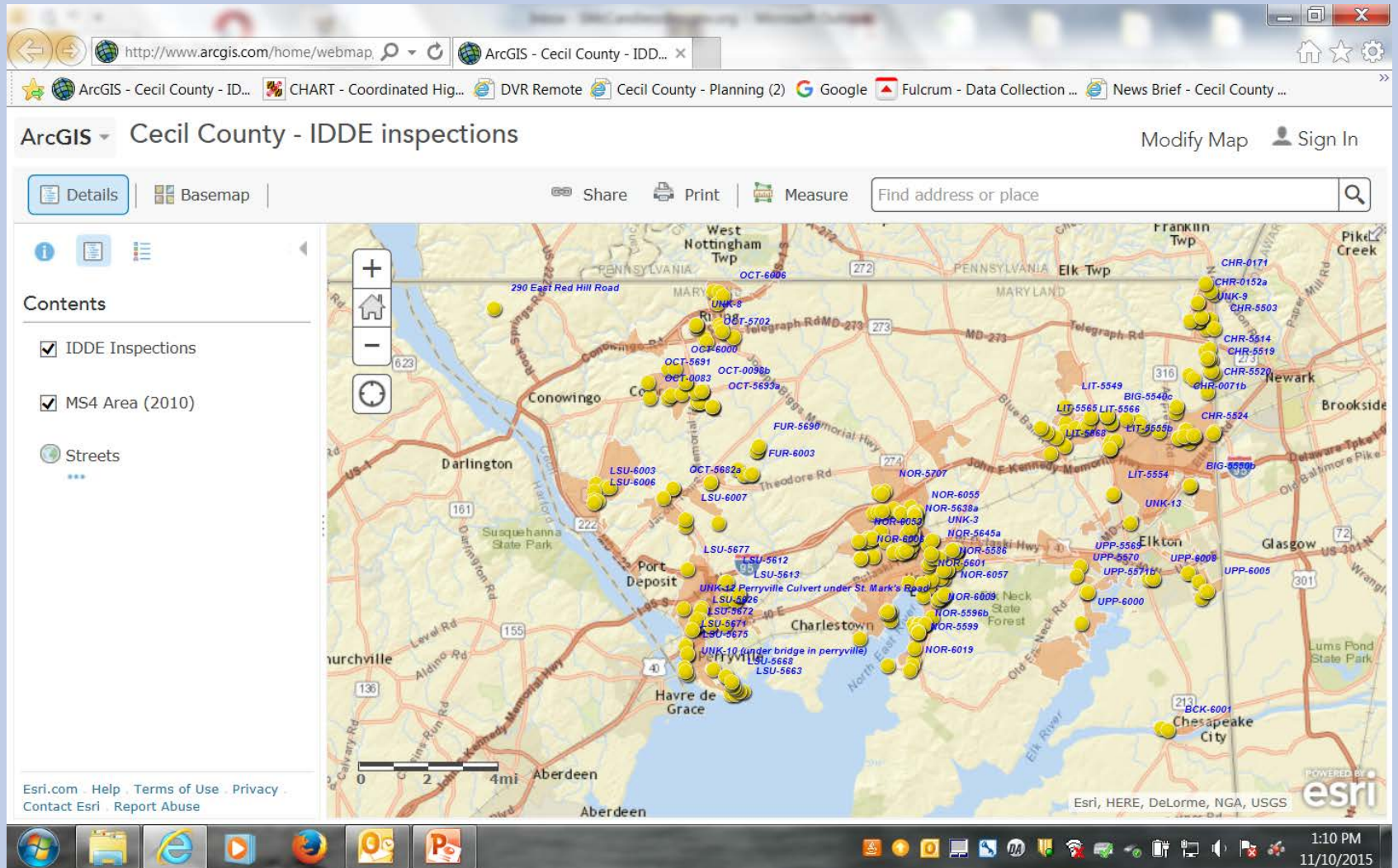
ArcGIS On-line Application

- MS4 Urbanized Area Outfalls
 - Geographic locations
 - Field Data
 - Photographs
- Storm Drain System

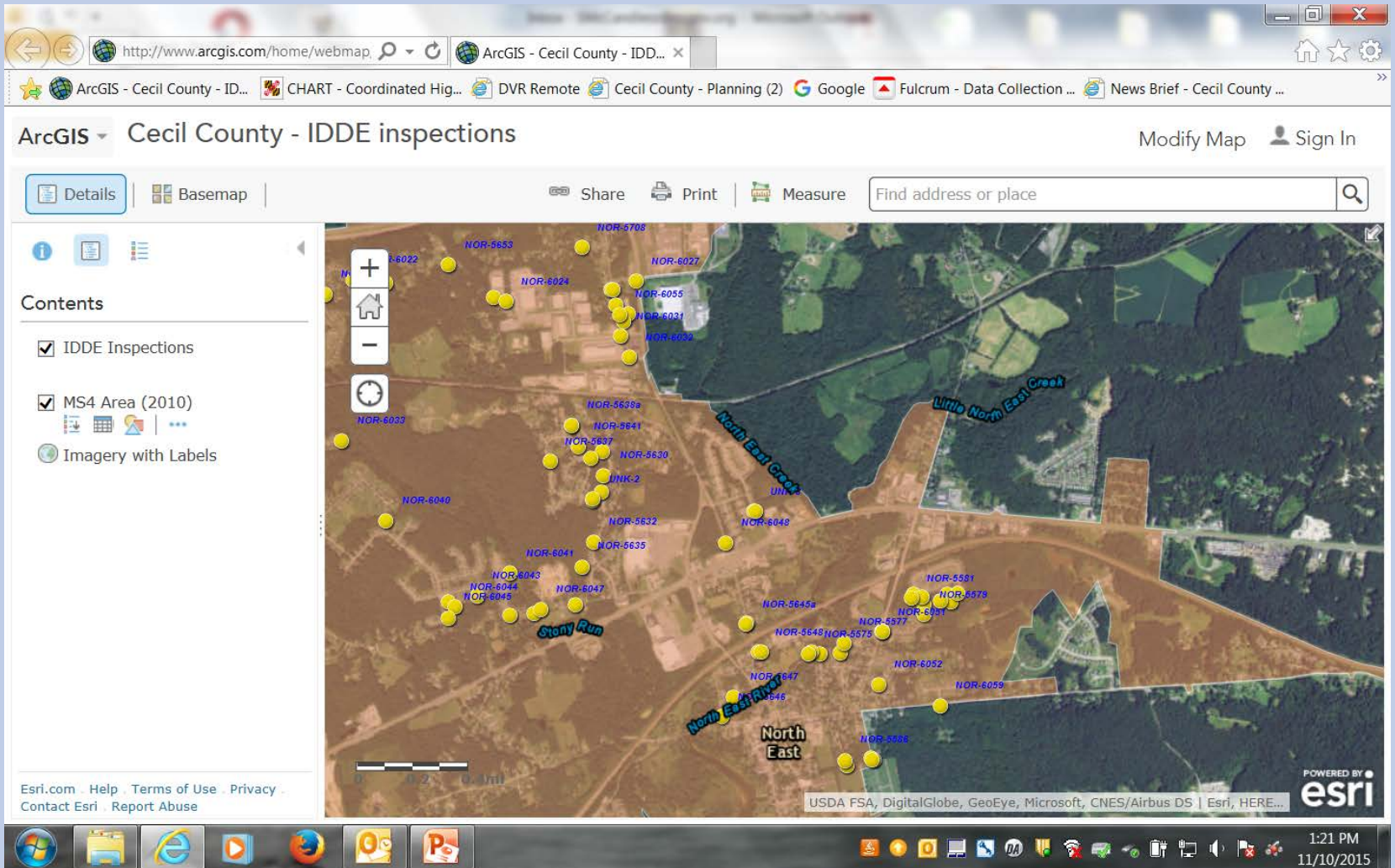
ArcGIS On-line



ArcGIS On-line



ArcGIS On-line



ArcGIS On-line

The screenshot shows the ArcGIS On-line web application interface. The browser address bar displays <http://www.arcgis.com/home/webmap>. The page title is "ArcGIS - Cecil County - IDDE inspections". The interface includes a "Details" tab, a "Basemap" button, and a search bar with the placeholder text "Find address or place". The "Contents" panel on the left shows a list of layers: "IDDE Inspections" (checked), "MS4 Area (2010)" (checked), and "Streets". The map displays a street network with labels for "North East", "George Ave", "W High St", "N Main St", and "Railroad Rd". A scale bar indicates distances of 0, 150, and 300 feet. A pop-up window titled "(1 of 3)" is open, displaying the following information:

(1 of 3)	
ID	NOR-5648
Last Inspection	April 24, 2014
FY12 Inspection	October 6, 2011
FY13 Inspection	
FY14 Inspection	April 24, 2014
FY15 Inspection	
FY15 Windshield Survey	
Feature	Outfall
Report Link	More info
Photo Link	More info
Zoom to	

The bottom of the interface shows the Esri logo and the text "POWERED BY esri". The Windows taskbar at the bottom displays the system clock as 1:17 PM on 11/10/2015.

ArcGIS On-line

http://cecilmaps.ccgov.org/SubdivPlats ArcGIS - Cecil County - IDDE in... cecilmaps.ccgov.org

ArcGIS - Cecil County - ID... CHART - Coordinated Hig... DVR Remote Cecil County - Planning (2) Google Fulcrum - Data Collection ... News Brief - Cecil County ...

ILICIT DISCHARGE INSPECTION FORM
CECIL COUNTY, MARYLAND
(PAGE 1 OF 2)

3 outfalls at same area with same NO flow characteristics. 5648a is the two pipes within 5 ft of each other.

Outfall ID:	NOR-5648 NOR-5648a NOR-5648b	Watershed Name:	
Initial Assessment			
Date:	April 25	Time:	1210
Inspectors:	DVR pano Riley Brown	Date of Last Rain:	
Air Temperature (°C):	60	Rainfall Amount (in.):	
Is flow observed?	Yes <input type="radio"/> No <input checked="" type="radio"/>	(if present, complete page 2 and a follow-up assessment)	
Outfall Description			
Type:	Outfall	Height:	
Shape:		Width:	
Material:	Metal	Additional components (circle applicable):	end wall wing walls flared end concrete deck pipes manhole
Outfall Location			
GPS northing:		General land use (circle one):	Rural <u>Residential</u> Urban
GPS easting:			11 - Low Density 12 <u>Medium Density</u>
GPS unit:		Maryland Dept. of Planning land use designation (circle one):	13 - High Density 14 - Commercial
Photo ID's:	68 - a 60 - 5648		15 - Industrial 16 - Institutional
		Nearby address / intersection / utility pole:	18 - Urban Open Space
Structural Conditions	(circle applicable)		
No deterioration	Concrete cracking: minor or excessive	Concrete spalling	Metal corrosion / rust
Peeling paint		Submerged	Holes
Evidence of undermining/scour:		end wall wing walls flared end concrete deck pipes manhole	
Evidence of imminent failure:		end wall wing walls flared end concrete deck pipes manhole	

1:18 PM 11/10/2015



ArcGIS On-line

The screenshot shows the ArcGIS On-line web application interface. The browser address bar displays <http://www.arcgis.com/home/webmap>. The page title is "Cecil County - IDDE inspections". The interface includes a "Details" tab, a "Basemap" layer, and a search bar. The map shows a street network with several yellow pins representing inspections. A popup window for inspection NOR-5648 is open, displaying the following information:

(1 of 3)	
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Last Inspection	April 24, 2014
FY12 Inspection	October 6, 2011
FY13 Inspection	
FY14 Inspection	April 24, 2014
FY15 Inspection	
FY15 Windshield Survey	
Feature	Outfall
Report Link	More info
Photo Link	More info
Zoom to	

The map includes a scale bar (0 to 300ft) and a scale of 1:10,000. The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying 1:17 PM on 11/10/2015.

ArcGIS On-line



Questions?

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